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Clear Lake Area Computer Capability Census and Directory

Robert F. Hodgins

Peter C. Bishop

University of Houston-Clear Lake

(NASA-CR-187267) CLEAR LAKE AREA COMPUTER
CAPABILITY CENSUS AND DIRECTORY (Houston
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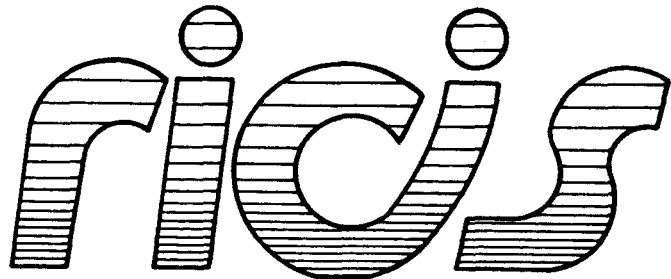
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Mission Support Directorate**



**Research Institute for Computing and Information Systems
University of Houston - Clear Lake**

T · E · C · H · N · I · C · A · L R · E · P · O · R · T

***Clear Lake Area
Computer Capability Census and
Directory***

Preface

This research was conducted under the auspices of the Research Institute for Computing and Information Systems by Robert F. Hodgins, Associate Professor of Economics and Finance at the University of Houston-Clear Lake. Peter C. Bishop, director of the Space Business Research Center, at the University of Houston-Clear Lake served as RICIS technical representative.

Funding has been provided by the Mission Support Directorate, NASA/JSC through Cooperative Agreement NCC 9-16 between NASA Johnson Space Center and the University of Houston-Clear Lake. The NASA technical monitor for the activity was Robert B. MacDonald, Assistant to the Director for Research, Education, and University Programs, Mission Support Directorate, NASA/JSC.

The views and conclusions contained in this report are those of the author and should not be interpreted as representative of the official policies, either express or implied, of NASA or the United States Government.

CLEAR LAKE AREA
COMPUTER CAPABILITY CENSUS
AND
DIRECTORY

A Study completed for the
Research Institute for Computing and Information Systems
Sponsored by the Johnson Space Center

by
Robert F. Hodgins, D.A.
Principal Investigator
and
Peter C. Bishop, Ph.D.
Research Area Director

Bureau of Research
and
Space Business Information Center
University of Houston-Clear Lake
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Houston, Texas 77058

PREFACE

This study was made possible through funds provided by the Research Institute for Computing and Information Systems (RICIS) sponsored by the Johnson Space Center. The objective of the investigation is to provide a reflection of key components of the Clear Lake-based aerospace industry and a convenient avenue for contacting aerospace representatives.

The data in the tables are those provided by the responders. Future studies may provide validation of these initial numbers. Feedback by any aerospace firm or its representatives is openly sought so that the data may be made more complete.

Requests for additional information concerning the data should be made to Dr. Peter C. Bishop, Director of the Space Business Information Center at the University of Houston-Clear Lake. The center maintains these and other space related data and can honor requests rapidly. The center can be reached by calling (713) 488-9300. Methodological questions can be answered by contacting Dr. Robert F. Hodgins through the University's Bureau of Research at (713) 488-9307.

Every study is completed through the efforts of many people and this one is no exception. First, our thanks to each participating aerospace establishment for completing a survey of significant proportion. Thanks also go to the team that developed, processed and now maintains the survey and its results.

Special thanks are extended to the following cooperating groups and organizations whose contributions are literally too numerous to list here.

Clear Lake Area Chamber of Commerce

Clear Lake Area Economic Development Foundation

Computer Sciences Corporation

CRSS, Inc.

Greater Houston Chamber of Commerce

Houston Lighting & Power Company

Johnson Space Center

Southwestern Bell Telephone Co.

Texas A & M University

University of Houston-Clear Lake

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PART I

CLEAR LAKE AREA AEROSPACE COMPUTER RESOURCES

The first-ever study to quantify Clear Lake aerospace industry resources was conducted during the summer of 1987. Summary data appearing in this section represent preliminary results. It is important that the data be viewed as early measures of the various resources due to the rapidly changing pace of the industry and the lack of any prior validating survey.

At the time of the study there were 66 known aerospace establishments of all sizes in the Clear Lake area of Houston. Estimated aerospace employment totaled 13,000 people with 3,400 employed at the Johnson Space Center and the remaining 9,600 employed by various off-site contractors. The survey returns from the participating establishments provide information on nearly 90 percent of the Clear Lake-based aerospace industry. Data in Table 1 show the twelve largest aerospace contractors outside of the Johnson Space Center.

TABLE 1
TWELVE LARGEST AEROSPACE EMPLOYERS*
IN THE CLEAR LAKE AREA
SUMMER 1987

-
1. IBM Corporation
 2. Lockheed (All Divisions)
 3. Singer Company (All Divisions)
 4. Rockwell Shuttle Operations Company
 5. Computer Sciences Corporation
 6. UNISYS
 7. Bendix Field Engineering Corporation
 8. Boeing Aerospace Operations
 9. McDonnell Douglas Astronautics Company
 10. Krug International
 11. Omniplan Corporation
 12. Barrios Technology
-

* The companies are listed in order by approximate employee count at the time of the survey.

The mainstay of any industry is people. Data in Table 2 reflect the human resources in eleven selected engineering, technical and managerial occupations closely associated with computer software development and computer hardware applications. Overall, nearly one-third of the contractor labor force is directly engaged in software engineering or its hardware applications.

TABLE 2
CLEAR LAKE AREA
AEROSPACE INDUSTRY HUMAN RESOURCES
SUMMER 1987

<u>Category</u>	<u>Trainee</u>	<u>Inter- mediate</u>	<u>Senior</u>	<u>Super- visory</u>	<u>Total</u>
Systems Manager	27	39	94	115	275
Hardware Engineer	38	99	103	28	268
Test Engineer	18	36	33	14	101
Systems Programmer	8	62	63	10	143
Computer Operator	42	143	71	21	277
Data Base Administrator	15	30	37	5	87
Software Systems Engineer	127	226	384	112	849
Telecommunications Engineer	13	25	45	15	98
Configuration Analyst	42	65	40	5	152
Applications Programmer	160	313	227	64	814
Technical Trainer	<u>5</u>	<u>24</u>	<u>45</u>	<u>13</u>	<u>87</u>
Total	495	1,062	1,192	402	3,151

Summary data in Tables 3, 4 and 5 reveal the breadth of computer hardware, non-PC tools and PC-tools for the Clear Lake-based aerospace industry. Perhaps the most striking feature of the data is the rich diversity of the tools being utilized.

TABLE 3
CLEAR LAKE AREA AEROSPACE
COMPUTER HARDWARE RESOURCES
AND PROGRAMMING LANGUAGES
SUMMER 1987

CATEGORY	Count
A. Local and Wide Area Networks	
1. Total Networks	54
2. Total Network Work Stations	9,174
B. Shared Resource Computers (Super, Main, Mini)	553
C. Total Shared Resource Computers Work Stations	2,340
D. Programming Languages*	
1. Assembly Language	14
2. ADA	16
3. Basic	5
4. C	13
5. Cobol	9
6. DBASE	4
7. Fortran	22
8. Pascal	17
9. PL1	4
10. Others	15

* Responders may have more than one language in use. Count represents the number of responders using a language.

TABLE 4
 CLEAR LAKE AREA AEROSPACE
 NON-PC COMPUTER TOOLS
 SUMMER 1987

Category	Count*
1. Electronic Mail	
a. Profs	6
b. All-in-one	7
c. Others	13
2. Data Base Management Systems	
a. Nomad	6
b. Ingres	3
c. Oracle	7
d. Others	36
3. Engineering	
a. Nastran	4
b. Trasys	2
c. Sindra	2
d. Others	11
4. Expert Systems	
a. Art	3
b. Clips	3
c. Lisp	2
d. Others	9
5. Graphics	
a. Displa	2
b. Plot 10	2
c. SAS Graph	4
d. ISSCO	3
e. GDDM	3
f. Others	19
6. Simulation	
a. Script	2
b. Others	8
7. Statistics	
a. SAS	11
b. Others	8

* More than one response or tool per responder is possible for all categories. Count represents the number of responders possessing the software listed.

TABLE 5
CLEAR LAKE AREA AEROSPACE
PC COMPUTER TOOLS
SUMMER 1987

Category	Count*
1. CAD/CAM Systems	
a. Auto Cad	5
b. Futurenet	2
c. Others	9
2. Data Base Management Systems	
a. DBASE (All Versions)	24
b. RBASE (All Versions)	8
c. Others	20
3. Desk Top Publishing	
a. Ventura	4
b. MacIntosh	2
c. Others	18
4. Electronic Mail	
a. All-in-one	4
b. Telemail	2
c. Vax Mail	2
d. Others	14
5. Engineering Analysis	
a. All Varieties	13
6. Expert Systems	
a. Lisp	2
b. Others	9
7. Graphics	
a. Free Lance	3
b. Gem Draw	9
c. Lotus	5
d. McDraw	6
e. Others	29
8. Simulation	
a. All Varieties	7
9. Spread Sheet	
a. Lotus	34
b. Others	27
10. Statistics	
a. All Varieties	6
11. Word Processing	
a. Displaywrite	7
b. Word Perfect	10
c. Word Star	19
d. Others	39

* More than one response or tool per responder is possible for all categories. Count represents the number of responders possessing the software listed.

PART II

CLEAR LAKE AREA
AEROSPACE ESTABLISHMENTS

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COMPANY NAME: Aerojet Techsystems Co.

LOCATION: 4749 NASA Rd 1 #50
Seabrook Tx 77546

MAILING ADDRESS:

TELEPHONE: 713/326-2369

NAME	TELEPHONE
CEO/GENERAL MANAGER: Clay Boyce (Manager)	713/326-2369

PERSONNEL DIRECTOR:

MARKETING MANAGER:

TYPE OF BUSINESS:	NUMBER OF EMPLOYEES:
Sales	

MAJOR CLIENT(S):	LEVEL OF ESTABLISHMENT: Local Facility
NASA/JSC Department of Defense	

LINE(S) OF BUSINESS:	CONTACT PERSON:
Rocket Propulsion	C. Boyce

OTHER INFORMATION:

COMPANY NAME: Barrios Technology, Inc.

LOCATION: 1331 Gemini
Houston

Tx 77058

MAILING ADDRESS:

TELEPHONE: 713/480-1889

	NAME	TELEPHONE
CEO/GENERAL MANAGER:	Mrs. E.B. Robinson (President)	713/480-1889
PERSONNEL DIRECTOR:	Marilyn Wiley (V.P. Finance & Administration)	713/480-1889
MARKETING MANAGER:	W. Esser (V.P. - Program Development)	713/480-1889

TYPE OF BUSINESS: NUMBER OF EMPLOYEES: 100 - 499
Service

MAJOR CLIENT(S): LEVEL OF ESTABLISHMENT: Headquarters
NASA/JSC

LINE(S) OF BUSINESS:	CONTACT PERSON:
Office Man Services, Software Dev.	J.A. Yglesias
Training	
Space Mission Planning, Operations & Analysis	J.A. Yglesias

OTHER INFORMATION:

COMPANY NAME: Bendix Field Engineering Corporation

LOCATION: 600 Gemini
Houston

Tx 77058

MAILING ADDRESS:

TELEPHONE: 713/282-4914

	NAME	TELEPHONE
CEO/GENERAL MANAGER:	Donald E. Smith (Vice-President & General Mgr.)	713/282-4911
PERSONNEL DIRECTOR:	Stan M. Citko (Director Human Resources)	713/282-2588
MARKETING MANAGER:	George Corley (Program Development)	713/282-3058

TYPE OF BUSINESS: NUMBER OF EMPLOYEES: 500 - 999

Service
Technical Service

MAJOR CLIENT(S): LEVEL OF ESTABLISHMENT: Separate Div/Opn und
NASA/JSC

LINE(S) OF BUSINESS:	CONTACT PERSON:
Engineering & Installation Services	George Corley
Maintenance & Operating Services	George Corley
Support Services	George Corley
Systems Management	George Corley
Computer & Software Services	George Corley

OTHER INFORMATION:

Bendix Field Engineering Corp. is the Techn Svcs
Unit of Bendix Aerospace Sector of Allied Signal.
We have appx 7500 employees at more than 120 world
locations providing Technical and Managerial
services to the U.S. Government and private
Industry throughout the world.

COMPANY NAME: Bruce G. Jackson & Associates

LOCATION: 17629 El Camino Real Ste 207
Houston Tx 77058

MAILING ADDRESS:

TELEPHONE: 713/486-7817

NAME	TELEPHONE
CEO/GENERAL MANAGER: Ivy Hooks (President)	713/486-7817

PERSONNEL DIRECTOR:

MARKETING MANAGER:

TYPE OF BUSINESS: NUMBER OF EMPLOYEES: less than 20

Research
Service

MAJOR CLIENT(S): LEVEL OF ESTABLISHMENT:

Commercial/Private

LINE(S) OF BUSINESS:

Systems Engineering
Software Engineering
Management Consulting
Payload Integration
Telemetry Processing

CONTACT PERSON:

Ivy Hooks
Michael Hieber
Ivy Hooks
Dave Hoffman
Mike Hieber

OTHER INFORMATION:

COMPANY NAME: Boeing Aerospace Operations

LOCATION: 1045 Gemini
Houston

Tx 77058

MAILING ADDRESS:

TELEPHONE: 713/280-2000

	NAME	TELEPHONE
CEO/GENERAL MANAGER:	Larry Elton (Houston Operations Manager)	713/280-2001
PERSONNEL DIRECTOR:	Dick Barnes (Industrial Relations Manager)	713/280-2020
MARKETING MANAGER:	Paul McRae (New Business Manager)	713/280-7364

TYPE OF BUSINESS: NUMBER OF EMPLOYEES: 500 - 999

MAJOR CLIENT(S): LEVEL OF ESTABLISHMENT: Branch

NASA/JSC
Department of Defense
Commerical/Private

LINE(S) OF BUSINESS:

CONTACT PERSON:

Engineering Services

OTHER INFORMATION:

COMPANY NAME: Control Data Corporation

LOCATION: 1730 Nasa Road 1
Houston Tx 77058

MAILING ADDRESS:

TELEPHONE: 713/333-2900

NAME

TELEPHONE

CEO/GENERAL MANAGER:

PERSONNEL DIRECTOR:

MARKETING MANAGER: Michael Sparks 713/333-2900
(Programs Marketing Manager)

TYPE OF BUSINESS: NUMBER OF EMPLOYEES: less than 20

Service
Sales

MAJOR CLIENT(S): LEVEL OF ESTABLISHMENT: Local Facility
NASA/JSC

LINE(S) OF BUSINESS: CONTACT PERSON:
Nasa Engineering Directorate Pat Kurten

OTHER INFORMATION:

the local office is servicing government operation
only.

COMPANY NAME: Cimarron Software Services

LOCATION: 17225 El Camino Real, Ste 300
Houston Tx 77058

MAILING ADDRESS:

TELEPHONE: 713/280-8000

	NAME	TELEPHONE
CEO/GENERAL MANAGER:	Marvin W. Triplett (President)	713/280-8000
PERSONNEL DIRECTOR:	Craig Strauss (Vice-President)	713/280-8000
MARKETING MANAGER:	Robert L. Peterson (Director of Marketing)	713/280-8000

TYPE OF BUSINESS: NUMBER OF EMPLOYEES: 20 - 49
Research

MAJOR CLIENT(S): LEVEL OF ESTABLISHMENT: Branch
Commercial/Private

LINE(S) OF BUSINESS:	CONTACT PERSON:
Software Development System Design System Integration System Programming Support Technical Writing	

OTHER INFORMATION:

COMPANY NAME: Computer Sciences Corporation

LOCATION: 16511 Space Center Blvd.
Houston Tx 77058

MAILING ADDRESS:

TELEPHONE: 713/486-8153

	NAME	TELEPHONE
CEO/GENERAL MANAGER:	E. P. Boykin (Vice President)	713/280-2216
PERSONNEL DIRECTOR:	Dorothy Eltzroth (Personnel Manager)	713/280-2264
MARKETING MANAGER:	W. L. Hill (Program Development)	713/486-8153

TYPE OF BUSINESS: NUMBER OF EMPLOYEES: 500 - 999
Service

MAJOR CLIENT(S): LEVEL OF ESTABLISHMENT: Local Facility
NASA/JSC

LINE(S) OF BUSINESS:	CONTACT PERSON:
Software User Support	Charles Liszcz
Hardware Engineering	Joe Choate
Administrative Applications Programming	Ben Rogers
Computer Operations	Larry Eversole
(anything not included above)	Bill Barry

OTHER INFORMATION:

Company exceeded \$1 Billion in revenue for first time in FY ending March 31, 1987. Large Backlog of Systems Integrations work for Dept. of Defense, Nasa, and Civil Agencies.
Company owns a large \$85 Million/year Credit Reproting Service in Houston. (Associated Credit Services, Inc.)

COMPANY NAME: Digital Equipment Corp.

LOCATION: 2525 Bay Area Blvd.
Houston Tx 77058

MAILING ADDRESS:

TELEPHONE: 713/953-4900

	NAME	TELEPHONE
CEO/GENERAL MANAGER:	Helen Wood (Sales Unit Manager)	713/953-4900
PERSONNEL DIRECTOR:	Helen Baites (Personnel Representative)	713/953-3902

MARKETING MANAGER:

TYPE OF BUSINESS: NUMBER OF EMPLOYEES: 20 - 49

Service
Sales

MAJOR CLIENT(S): LEVEL OF ESTABLISHMENT: Local Facility

NASA/JSC
Prime Contractors

LINE(S) OF BUSINESS:

Field Service
Software
Sales
Logistics

CONTACT PERSON:

Bill Renier
David McAllister
Helen Wood
Preston Bradford

OTHER INFORMATION:

COMPANY NAME: Eagle Engineering, Inc.

LOCATION: 711 Bay Area Blvd.
Webster

Tx 77598

MAILING ADDRESS: P.O. Box 891049
Houston

Tx 77598

TELEPHONE: 713/338-2682

	NAME	TELEPHONE
CEO/GENERAL MANAGER:	Bass Redd (President)	713/338-2682
PERSONNEL DIRECTOR:	John Watson (Project Support Director)	713/338-2682
MARKETING MANAGER:	Ronald Blilie (Marketing Director)	713/338-2682

TYPE OF BUSINESS:

NUMBER OF EMPLOYEES: 20 -49

Service

MAJOR CLIENT(S):

LEVEL OF ESTABLISHMENT: Wholly-Owned
Subsidiary

Commerical/Private

LINE(S) OF BUSINESS:

CONTACT PERSON:

Aerospace Engineering & Management

Ronald Blilie

OTHER INFORMATION:

COMPANY NAME: ECON, Inc., Southwestern Office

LOCATION: 711 W. Bay Area Blvd. # 615
Webster Tx 77598

MAILING ADDRESS:

TELEPHONE: 713/554-7592

	NAME	TELEPHONE
CEO/GENERAL MANAGER:	Robert V. Phillips (Vice-President)	713/554-7592
PERSONNEL DIRECTOR:		
MARKETING MANAGER:	D'Ann Derks (Admin. Assistant)	713/554-7592

TYPE OF BUSINESS: NUMBER OF EMPLOYEES: less than 20
Service

MAJOR CLIENT(S): LEVEL OF ESTABLISHMENT: Division
NASA/JSC
Department of Defense

LINE(S) OF BUSINESS:	CONTACT PERSON:
Parametric Cost Analysis	Robert Phillips
Cost Modeling	June Poole
Economic Assessment	Elizabeth Nelson
Operations Simulation	June Poole
Management Systems	June Poole

OTHER INFORMATION:

Currently Building Advanced Missions Cost Model
for JSC.

COMPANY NAME: Ford Aerospace Corporation

LOCATION: 1322 Space Park Drive
Houston Tx 77058

MAILING ADDRESS: P. O. Box 58487
Houston Tx 77258

TELEPHONE: 713/488-1270

	NAME	TELEPHONE
CEO/GENERAL MANAGER:	Clinton H. Denny (Director)	713/335-6001
PERSONNEL DIRECTOR:	Dan L. Reid (Mgr., Industrial Relations)	713/335-6006
MARKETING MANAGER:	James A. Miller (Mgr., Business Development)	713/335-6009

TYPE OF BUSINESS: NUMBER OF EMPLOYEES: 100 - 499
Hardware/Software Systems Development

MAJOR CLIENT(S): LEVEL OF ESTABLISHMENT: Division
NASA/JSC
Commercial/Private

LINE(S) OF BUSINESS:	CONTACT PERSON:
Systems Design, Development & Integration	Ron E. Gantz/Glen Ferris
Software Engineering (ADA, RT Flight Systems)	Kay S. Walls
Simulation & Training	James Miller
Workstations & Local Area Networks Engineering	Francis Marble
Special Systems Manufacturing	John Sander

OTHER INFORMATION:

Corporate Headquarters: Ford Aerospace Corporation, 300 Renaissance
Center, Detroit, MI 48243-3342
CEO/GENERAL MANAGER: Donald B. Rassier

COMPANY NAME: General Dynamics

LOCATION: 1300 Hercules
Houston

Tx 77058

MAILING ADDRESS:

TELEPHONE: 713/486-9112

NAME	TELEPHONE
CEO/GENERAL MANAGER: John R. Crenshaw (Corporate Manager)	713/486-9112

PERSONNEL DIRECTOR:

MARKETING MANAGER:

TYPE OF BUSINESS: NUMBER OF EMPLOYEES: less than 20

Service

Marketing - Contract Coordination

MAJOR CLIENT(S): LEVEL OF ESTABLISHMENT: Local Facility

Department of Defense

LINE(S) OF BUSINESS:

Launch Vehicles, Upper Stages
Super Conducting Magnets
Launch Services

CONTACT PERSON:

John Crenshaw
John Crenshaw
John Crenshaw

OTHER INFORMATION:

COMPANY NAME: GB Tech, Inc.

LOCATION: 18333 Egret Bay Blvd., Suite 302
Houston Tx 77058

MAILING ADDRESS: P. O. Box 580427-0427
Houston Tx 77258

TELEPHONE: 713/333-3703

	NAME	TELEPHONE
CEO/GENERAL MANAGER:	Mr. Gale E. Burkett (President)	713/333-3703
PERSONNEL DIRECTOR:	Mr. Gale E. Burkett (President)	713/333-3703
MARKETING MANAGER:	Mr. Gale E. Burkett (President)	713/333-3703

TYPE OF BUSINESS: NUMBER OF EMPLOYEES: less than 20

Service

MAJOR CLIENT(S): LEVEL OF ESTABLISHMENT: Headquarters
Commercial/Private

LINE(S) OF BUSINESS: CONTACT PERSON:

ADP management consulting
System analysis
Computer operations
Hardware/Software procurement
Database design & implementation

OTHER INFORMATION:

COMPANY NAME: Grumman Corporation

LOCATION: 2200 Space Park Drive
Houston Tx 77058

MAILING ADDRESS:

TELEPHONE: 713/333-2560

	NAME	TELEPHONE
CEO/GENERAL MANAGER:	Jerry C. Bostick (Vice President)	713/333-2560
PERSONNEL DIRECTOR:	Ms. Freddie Ann Marcussen (Manager, Support Services)	713/333-2560
MARKETING MANAGER:	Gary N. Stone (Manager, Corporate Development)	713/333-2560

TYPE OF BUSINESS: NUMBER OF EMPLOYEES: 20 - 49
Engineering

MAJOR CLIENT(S): LEVEL OF ESTABLISHMENT: Local Facility
NASA/JSC
Department of Defense

LINE(S) OF BUSINESS:

Manned Space Systems
EVA Systems
Thermal Systems
Telerobotics
Software Development

CONTACT PERSON:

Bill Lofland
Joe Marino
Bob Haslett
Al Nathan
Mike Dalke

OTHER INFORMATION:

COMPANY NAME: Hernandez Engineering Inc.

LOCATION: 17629 El Camino Real, Ste 206
Houston Tx 77058

MAILING ADDRESS:

TELEPHONE: 713/280-5159

	NAME	TELEPHONE
CEO/GENERAL MANAGER:	M. A. Hernandez (President)	713/280-5159
PERSONNEL DIRECTOR:	Anita Bartosh (Personnel Manager)	713/280-5159
MARKETING MANAGER:	R. Scott Millican (Vice President)	713/280-5159

TYPE OF BUSINESS: NUMBER OF EMPLOYEES: less than 20
Service

MAJOR CLIENT(S): LEVEL OF ESTABLISHMENT: Headquarters
NASA/JSC
Commercial/Private

LINE(S) OF BUSINESS:	CONTACT PERSON:
Aerospace Engineering Integration	R. Scott Millican
Flight Operations	R. Scott Millican
Safety Reliability & Quality Assurance	R. Scott Millican
Logistics	R. Scott Millican
Maintainability	R. Scott Millican

OTHER INFORMATION:

COMPANY NAME: IBM Federal Systems Division

LOCATION: 3700 Bay Area Blvd.
Houston Tx 77058

MAILING ADDRESS:

TELEPHONE: 713/282-2300

	NAME	TELEPHONE
CEO/GENERAL MANAGER:	Steve A. Hudson (General Manager)	713/282-7436
PERSONNEL DIRECTOR:	Joseph Wolken (Manager, Personnel)	713/282-7113
MARKETING MANAGER:	Dale Shaffer (Program Director, Marketing)	713/282-7341

TYPE OF BUSINESS: NUMBER OF EMPLOYEES: 1,000 or more
Plant/Laboratory

MAJOR CLIENT(S): LEVEL OF ESTABLISHMENT: Federal Systems
Division

LINE(S) OF BUSINESS:	CONTACT PERSON:
Aerospace Systems	Dale Shaffer
Office Automation Systems	Dale Shaffer

OTHER INFORMATION:

Recipient, 1986 NASA Excellence Award for Quality
and Productivity

COMPANY NAME: ILC Space Systems

LOCATION: 16665 Space Center Blvd.
Houston Tx 77058

MAILING ADDRESS:

TELEPHONE: 713/488-9080

	NAME	TELEPHONE
CEO/GENERAL MANAGER:	Stan Moorehead (Division President)	713/488-9080
PERSONNEL DIRECTOR:	Robert Woeckener (Vice-Presidentn Human Resources)	713/488-9080
MARKETING MANAGER:	Stan Moorehead	

TYPE OF BUSINESS: NUMBER OF EMPLOYEES: 50 - 99

Manufacturing
Service

MAJOR CLIENT(S): LEVEL OF ESTABLISHMENT: Division

NASA/JSC
Department of Defense
Commercial/Private

LINE(S) OF BUSINESS:

Engineering of Space Hardware
Design of Space Hardware
Development of Space Hardware
Thermal Products

CONTACT PERSON:

Jon Selon - Marketing
Jon Selon
Jon Selon
Larry Stevenson - Marketing

OTHER INFORMATION:

COMPANY NAME: Intermetrics Inc. - Houston Operations

LOCATION: 1100 Hercules #300
Houston Tx 77058

MAILING ADDRESS:

TELEPHONE: 713/480-4101

	NAME	TELEPHONE
CEO/GENERAL MANAGER:	David L. Walker (Director - Hosuton Operations)	713/480-4101
PERSONNEL DIRECTOR:	Shirley Jensen (Personnel Representative)	713/480-4101
MARKETING MANAGER:	Delores Moorehead (Director - Advanced Prog. Dev.)	713/480-4101

TYPE OF BUSINESS: NUMBER OF EMPLOYEES: 50 - 99

Service
Systems Development

MAJOR CLIENT(S): LEVEL OF ESTABLISHMENT: Division

NASA/JSC
Department of Defense
COMMERCIAL/PRIVATE

LINE(S) OF BUSINESS:	CONTACT PERSON:
Software Systems Engineering ADA	Delores Moorehead
Aerospace Simulation	Delores Moorehead
Navigation Systems Analysis (GN&C)	Delores Moorehead
IV&V; Tank guaging/Oil mvmt Sys	Delores Moorehead
Loc. Area Netwk/Info Sys; Med. Info Mgmt Sys.	Delores Moorehead

OTHER INFORMATION:

Four of our ADA Compilers have satisfied DOD validation. The software productivity consortium selected Intermetric's ADA compiler for their use. The Air Force JPO awarded us a superior rating on our GPS IV&V Contract.

COMPANY NAME: Krug Intl., Technology life Sciences Division

LOCATION: 1290 Hercules Dr. #120
Houston Tx 77058

MAILING ADDRESS:

TELEPHONE: 713/488-5970

	NAME	TELEPHONE
CEO/GENERAL MANAGER:	Robert M. Ellis (Manager, Houston Operations)	713/488-5970
PERSONNEL DIRECTOR:	June E. Richmond (Human Resources Manager)	713/488-5970

MARKETING MANAGER:

TYPE OF BUSINESS: NUMBER OF EMPLOYEES: 100 - 499

Research
Service

MAJOR CLIENT(S): LEVEL OF ESTABLISHMENT: DIVISION
NASA/JSC

LINE(S) OF BUSINESS: CONTACT PERSON:
Research & Development under NASA/JSC Contract Harry F. Walbrecher

OTHER INFORMATION:

COMPANY NAME: Lockheed Missiles & Space Co., Inc.

LOCATION: 1150 Gemini Ave.
Houston

Tx 77058

MAILING ADDRESS:

TELEPHONE: 713/282-6401

NAME

TELEPHONE

CEO/GENERAL MANAGER:

PERSONNEL DIRECTOR: Robert M. Gibbs
(Administrator)

713/282-6403

MARKETING MANAGER: W. G. Straight
(Mgr, New Business Planning)

713/282-6311

TYPE OF BUSINESS:

NUMBER OF EMPLOYEES:

Computer Software Development

MAJOR CLIENT(S):

LEVEL OF ESTABLISHMENT: Local Facility

Department of Defense

LINE(S) OF BUSINESS:

CONTACT PERSON:

USAF & NASA Space Systems
Fleet Ballistic Missiles
Ballistic Missile Defense
Space Telescopes
Directed Energy Systems

W. G. Straight
W. G. Straight
W. G. Straight
W. G. Straight
W. G. Straight

OTHER INFORMATION:

COMPANY NAME: Lockheed Engineering & Management Services Co. Inc

LOCATION: 2400 NASA Rd 1
Houston

Tx 77058

MAILING ADDRESS: P.O. Box 58561
Houston

Tx 77258

TELEPHONE: 713/333-5411

	NAME	TELEPHONE
CEO/GENERAL MANAGER:	R. B. Young (President)	713/333-6200
PERSONNEL DIRECTOR:	E. H. Clay (Manager, Human Resources Dept.)	713/333-6604
MARKETING MANAGER:	John Denson (VP, Advanced Programs)	713/333-6057

TYPE OF BUSINESS: NUMBER OF EMPLOYEES: 1,000 or more
Service

MAJOR CLIENT(S): LEVEL OF ESTABLISHMENT: Headquarters
NASA/JSC

LINE(S) OF BUSINESS:	CONTACT PERSON:
Computer Systems and Software	L. H. Harris
Electronic and Mechanical Design	M. E. White
Electrical Fabrication	R. L. Simpson
System Engineering and Analysis	M. M. Miller
Science Services and Expert Services	K. E. Bentley

OTHER INFORMATION:

COMPANY NAME: Lockheed Space Operations Company

LOCATION: 2400 Nasa Road 1 Mail Code: A-20
Houston Tx 77058

MAILING ADDRESS:

TELEPHONE: 713/333-6114

NAME

TELEPHONE

CEO/GENERAL MANAGER: Greg P. McIntosh
(Manager, Field Offices)

713/333-6114

PERSONNEL DIRECTOR:

MARKETING MANAGER:

TYPE OF BUSINESS:

NUMBER OF EMPLOYEES:

MAJOR CLIENT(S):

LEVEL OF ESTABLISHMENT:

LINE(S) OF BUSINESS:

CONTACT PERSON:

OTHER INFORMATION:

This office functions as a field office for our
main office in Titusville, Florida. We do not
have computer resources.

COMPANY NAME: Lovelace Medical Foundation, Space Biomedicine Div

LOCATION: 711 W. Bay Area Blvd., Ste 300
Webster Tx 77598

MAILING ADDRESS:

TELEPHONE: 713/338-2044

NAME	TELEPHONE
CEO/GENERAL MANAGER: Arthur E. Schultz (Director)	713/338-2044

PERSONNEL DIRECTOR:

MARKETING MANAGER:

TYPE OF BUSINESS:	NUMBER OF EMPLOYEES: less than 20
Research	

MAJOR CLIENT(S):	LEVEL OF ESTABLISHMENT: Division
Commercial/Private	

LINE(S) OF BUSINESS:	CONTACT PERSON:
Medical Research	Art Schultz
Medical Education	Art Schultz

OTHER INFORMATION:

COMPANY NAME: McDonnell Douglas Astronautics Co., Engrg Svcs.

LOCATION: 16055 Space Center Blvd.
Houston Tx 77062

MAILING ADDRESS:

TELEPHONE: 713/280-1500

	NAME	TELEPHONE
CEO/GENERAL MANAGER:	C. A. Jacobson, Sr. (Vice-President - General Mgr.)	713/280-1790
PERSONNEL DIRECTOR:	M. Lee Pflueger (Manager - Human Resources)	713/280-1750
MARKETING MANAGER:	Joe Coleman (Director - Business Developmt)	713/280-1550

TYPE OF BUSINESS: NUMBER OF EMPLOYEES: 100 - 499
Engineering/Technical Services

MAJOR CLIENT(S): LEVEL OF ESTABLISHMENT: Division
NASA/JSC
Department of Defense

LINE(S) OF BUSINESS:	CONTACT PERSON:
Aerospace Systems Analysis, Orbital Mechanics	Jim Bloom
Flight Performance, Guidance, Navig & Control	Jim Bloom
Artificial Intelligence	Jack Aldridge
Software Design & Engineering	J. D. Buckner
Computer Systems Engineering & Integration	J. D. Buckner

OTHER INFORMATION:

McDonnell Douglas Astronautics Co. in Huntington Beach, CA. was recently awarded a major contract to build Delta Rockets to launch Air Force paylds. McDonnell Douglas is competing to develop the NASA Space Station and the National Aerospace Plane.

COMPANY NAME: Mitre

LOCATION: 1120 NASA Rd. 1
Nassau Bay

Tx 77058

MAILING ADDRESS:

TELEPHONE: 713/333-5020

NAME

TELEPHONE

CEO/GENERAL MANAGER: Edwin S. Herndon
(Associate Division Head)

713/333-0909

PERSONNEL DIRECTOR:

MARKETING MANAGER:

TYPE OF BUSINESS:

NUMBER OF EMPLOYEES: 50 - 99

Research

MAJOR CLIENT(S):

LEVEL OF ESTABLISHMENT: Branch

NASA/JSC

LINE(S) OF BUSINESS:

CONTACT PERSON:

Data Systems Engineering
Computer Systems Planning
Computer Performance Evaluation
AI Applications

J. S. Brown
W. P. Kincy
S. A. Bell
J. F. Spitzer

OTHER INFORMATION:

Mitre is a major Federally funded research & dev.
center (FFRDC). It is a non-for-profit corp. which
works almost exclusively for agencies of the fed.
govt. Its principal client is the Air Force
Electronics Systems Div.

COMPANY NAME: Martin Marietta Corp.

LOCATION: 2525 Bay Area Blvd., Ste 490
Houston Tx 77058

MAILING ADDRESS:

TELEPHONE: 713/280-5255

	NAME	TELEPHONE
CEO/GENERAL MANAGER:	Willard C. Thackston (Houston District Manager)	713/280-5225
PERSONNEL DIRECTOR:	Deborah A. Pauley (Houston District Secretary)	713/280-5225
MARKETING MANAGER:	Willard C. Thackston (Houston District Manager)	713/280-5225

TYPE OF BUSINESS: NUMBER OF EMPLOYEES: less than 20
Sales

MAJOR CLIENT(S): LEVEL OF ESTABLISHMENT: Branch
NASA/JSC
Department of Defense

LINE(S) OF BUSINESS: CONTACT PERSON:
Aerospace Willard C. Thackston

OTHER INFORMATION:

COMPANY NAME: Morton Thiokol, Inc.

LOCATION: 1730 NASA Rd. 1, Ste 205
Houston Tx 77058

MAILING ADDRESS: P. O. Box 58723
Houston Tx 77258

TELEPHONE: 713/333-2332

NAME	TELEPHONE
CEO/GENERAL MANAGER: Edward. J. Mason (Office Manager)	713/333-2332

PERSONNEL DIRECTOR:

MARKETING MANAGER:

TYPE OF BUSINESS: NUMBER OF EMPLOYEES:

MAJOR CLIENT(S): LEVEL OF ESTABLISHMENT:

LINE(S) OF BUSINESS: CONTACT PERSON:

OTHER INFORMATION:

This is a one-man, one-secretary liaison office to the NSTS Program Office. We have no computers and do not expect to get any.

COMPANY NAME: Network Solutions Inc.

LOCATION: 1290 Hercules Dr. Ste 200
Houston Tx 77058

MAILING ADDRESS:

TELEPHONE: 713/488-1450

	NAME	TELEPHONE
CEO/GENERAL MANAGER:	Donald W. Metzke (Technical Director)	713/488-1450
PERSONNEL DIRECTOR:	Marsha McCullough (Human Resources)	713/488-1450
MARKETING MANAGER:	Garlon Moses (Marketing Manager)	713/488-1450

TYPE OF BUSINESS: NUMBER OF EMPLOYEES: 50 - 99
Service

MAJOR CLIENT(S): LEVEL OF ESTABLISHMENT: Division
NASA/JSC

LINE(S) OF BUSINESS:	CONTACT PERSON:
Systems Integration	Donald W. Metzler
Communications	Donald W. Metzler
Operations	Tom Haley
Defense Systems	Tom Haley
C3I Systems	Mark Levitz

OTHER INFORMATION:

Developed own DDN/MVS product for DDN Connectivity
Developed product utilizing ADA for DOD.

COMPANY NAME: Omniplan Corporation

LOCATION: 17226 Mercury Drive
Houston Tx 77058

MAILING ADDRESS:

TELEPHONE: 713/480-2817

	NAME	TELEPHONE
CEO/GENERAL MANAGER:	R. E. Montho Jr. (CEO/General Manager)	713/480-2817
PERSONNEL DIRECTOR:	M. E. Long (Manager, Human Resources)	713/480-2817
MARKETING MANAGER:	Brian Porr (Proposals Manager)	713/480-2817

TYPE OF BUSINESS: NUMBER OF EMPLOYEES: 100 - 499
Service

MAJOR CLIENT(S): LEVEL OF ESTABLISHMENT: Division
NASA/JSC
Department of Defense

LINE(S) OF BUSINESS:	CONTACT PERSON:
Systems Engineering Technical Information Sys	John Culp
Technical Documentation Editing/Graphics/WP	Brian Porr
Exhibits/Commercial Graphics/Public Affairs	Jeanie Burderer

OTHER INFORMATION:

COMPANY NAME: Perceptive Systems

LOCATION: 1301 Regents Park Drive, Suite 200
Houston Tx 77058

MAILING ADDRESS:

TELEPHONE: 713/480-8441

	NAME	TELEPHONE
CEO/GENERAL MANAGER:	Kenneth R. Castleman, Ph.D. (President)	713/480-8441
PERSONNEL DIRECTOR:	Deborah Hajek (Administrative Manager)	713/480-8441
MARKETING MANAGER:	Shawn Lunney (Sales & Marketing Manager)	713/480-8441

TYPE OF BUSINESS: NUMBER OF EMPLOYEES: 30

Digital Image Processing

MAJOR CLIENT(S): LEVEL OF ESTABLISHMENT: Corporate Office
Clinical Laboratories
Universities

LINE(S) OF BUSINESS:	CONTACT PERSON:
Manufacturing & Engineering	Larry Forrest
Research & Development	Robert C. McGill
Customer Service	Girish Dajee
Sales & Marketing	Shawn Lunney

OTHER INFORMATION:

COMPANY NAME: Rockwell Shuttle Operations Company

LOCATION: 600 Gemini Avenue
Houston

Tx 77058

MAILING ADDRESS:

TELEPHONE: 713/282-2000

	NAME	TELEPHONE
CEO/GENERAL MANAGER:	R. G. Minor (President)	713/282-4440
PERSONNEL DIRECTOR:	A. L. Nash (Director, Human Resources)	713/282-2576
MARKETING MANAGER:	(Office of the President)	713/282-4440

COMPANY NAME: Scitor Corporation

LOCATION: 17629 El Camino Real, Ste 400
Houston Tx 77058

MAILING ADDRESS:

TELEPHONE: 713/486-1746

	NAME	TELEPHONE
CEO/GENERAL MANAGER:	Ed Fendell (Area Manager)	713/486-1746

PERSONNEL DIRECTOR:

MARKETING MANAGER:	Ed Fendell (Marketing Representative)	713/486-1746
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TYPE OF BUSINESS:	NUMBER OF EMPLOYEES: less than 20
Service	

MAJOR CLIENT(S):	LEVEL OF ESTABLISHMENT: Branch
Department of Defense	

LINE(S) OF BUSINESS:	CONTACT PERSON:
Simulation & Training	Clear Lake Office
Commercial Software	
Flight Operations Support	Clear Lake Office
Software Maintenance	
Engineering Consultancy	

OTHER INFORMATION:

COMPANY NAME: The Singer Co., Link Flight Simulation Division

LOCATION: 2224 Bay Area Blvd.
Houston

Tx 77058

MAILING ADDRESS:

TELEPHONE: 713/488-5510

	NAME	TELEPHONE
CEO/GENERAL MANAGER:	P. J. Anderson (General Manager)	713/280-4651
PERSONNEL DIRECTOR:	David J. Letts (Director, P&O)	713/280-4092
MARKETING MANAGER:	R.C. Bates / R. J. Pawlikowski (Mgr, New Business / Mgr, Mktg)	713/280-4000

TYPE OF BUSINESS: NUMBER OF EMPLOYEES: 500 - 999

Manufacturing
Service

MAJOR CLIENT(S): LEVEL OF ESTABLISHMENT: Local Facility

NASA/JSC
Department of Defense

LINE(S) OF BUSINESS:

Air Force Training Systems
Navy Training Systems
Space Training Systems

CONTACT PERSON:

R. F. Aimonetti, Dir.
P. J. Anderson, Gen.
R. D. McCafferty, Gen.

OTHER INFORMATION:

COMPANY NAME: SofTech, Inc.

LOCATION: 1300 Hercules Dr. Ste. 105
Houston Tx 77058

MAILING ADDRESS:

TELEPHONE: 713/480-1994

	NAME	TELEPHONE
CEO/GENERAL MANAGER:	John Mc Bride (Manager, Houston Operations)	713/480-1994
PERSONNEL DIRECTOR:	Mary Loflund (Manager, Human Resources)	703/931-7372
MARKETING MANAGER:	Richard Kessinger (Manager, Nasa Programs)	713/480-1994

TYPE OF BUSINESS: NUMBER OF EMPLOYEES:

Research
Service

MAJOR CLIENT(S): LEVEL OF ESTABLISHMENT: Branch

NASA/JSC

LINE(S) OF BUSINESS: CONTACT PERSON:

Systems / Software Engineering
ADA Transition
ADA Software Development

R. Kessinger
R. Kessinger
R. Kessinger

OTHER INFORMATION:

The Houston Operation is a new start which opened its offices here in April 1986. We started with 3 engineers and we currently have seven employees with new openings for four more. We were recently awarded an \$880,000 Air Force contract to provide software services.

COMPANY NAME: Space Industries

LOCATION: 711 W. Bay Area Blvd.
Webster Tx 77598

MAILING ADDRESS:

TELEPHONE: 713/338-2676

NAME

TELEPHONE

CEO/GENERAL MANAGER: Dr. Max Faget
(President/CEO)

713/338-2676

PERSONNEL DIRECTOR:

EXECUTIVE VICE PRESIDENT: Dr. Joseph Allen

TYPE OF BUSINESS:

NUMBER OF EMPLOYEES: 20 - 49

Research
Design

MAJOR CLIENT(S):

LEVEL OF ESTABLISHMENT: Headquarters

LINE(S) OF BUSINESS:

CONTACT PERSON:

Development of the Industrial Space Facility Al Louviere

OTHER INFORMATION:

COMPANY NAME: Space Services Inc.

LOCATION: 7015 Gulf Freeway, Ste 140
Houston Tx 77087

MAILING ADDRESS:

TELEPHONE: 713/649-1716

	NAME	TELEPHONE
CEO/GENERAL MANAGER:	David Hannah, Jr. (Chairman)	713/649-1716
PERSONNEL DIRECTOR:	James E. Davidson (Project Manager)	713/649-1716
MARKETING MANAGER:	Mark Daniels (Special Projects Manager)	713/649-1716

TYPE OF BUSINESS: NUMBER OF EMPLOYEES: less than 20

Research
Manufacturing
Service
Sales

MAJOR CLIENT(S): LEVEL OF ESTABLISHMENT: Headquarters

Department of Defense
Commercial/Private

LINE(S) OF BUSINESS:

CONTACT PERSON:

Launch Vehicle and Launch Services
Remote Sensing Systems, as Space America
Advanced Space Systems

Donald K. "Deke" Sla
Donald K. "Deke" Sla
Donald K. "Deke" Sla

OTHER INFORMATION:

SSI has signed launch services agreement with Starfind, /inc. of Laguna Niguel, CA. SSI is to launch five satellites for Starfind beginning late 1988. The satellites will be able to locate small radio transponders on Earth for purposes such as navigation, automobile locating, and stolen object recovery.

COMPANY NAME: TRW

LOCATION: 2525 Bay Area Blvd., Ste 620
Houston Tx 77058

MAILING ADDRESS:

TELEPHONE: 713/486-1600

NAME

TELEPHONE

CEO/GENERAL MANAGER:

PERSONNEL DIRECTOR:

MARKETING MANAGER:	Carl B. Peterson (Manager, District Marketing)	713/486-1600
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TYPE OF BUSINESS:	NUMBER OF EMPLOYEES:
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Sales

MAJOR CLIENT(S):	LEVEL OF ESTABLISHMENT:
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LINE(S) OF BUSINESS:	CONTACT PERSON:
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OTHER INFORMATION:

COMPANY NAME: University of Houston - Clear Lake

LOCATION: 2700 Bay Area Blvd.
Houston Tx 77058

MAILING ADDRESS:

TELEPHONE: 713/488-7170

	NAME	TELEPHONE
CEO/GENERAL MANAGER:	Dr. Thomas M. Stauffer (President)	713/488-9336
PERSONNEL DIRECTOR:	Ms. Marianne Garrigues (Dir. of Personnel Services)	713/488-9260
MARKETING MANAGER:	Ms. Becky Schergens (Exec. Dir. - Inst. Advancement)	713/488-9454

TYPE OF BUSINESS: NUMBER OF EMPLOYEES: 500 - 999

Higher Education

MAJOR CLIENT(S): LEVEL OF ESTABLISHMENT: 1 of 4 campuses

State Funded Institution

LINE(S) OF BUSINESS:

CONTACT PERSON:

School of Natural and Applied Sciences	Dean E. T. Dickerson
School of Education	Dean Joan Michael
School of Humanities and Human Sciences	Dean Wayne Miller
School of Business and Public Administration	Dean Todd Johnson

OTHER INFORMATION:

UH-Clear Lake has recently established a cooperative agreement with NASA/JSC resulting in the establishment of the Research Institute for Computing and Information Systems (RICIS). It has also recently been funded as a Software Engineering Research Center (SERC).

COMPANY NAME: Universities Space Research Association

LOCATION: 2525 Bay Area Blvd., Ste 530
Houston Tx 77058

MAILING ADDRESS:

TELEPHONE: 713/480-5939

NAME	TELEPHONE
CEO/GENERAL MANAGER: John R. Sevier (Dep. Director)	713/480-5939

PERSONNEL DIRECTOR:

MARKETING MANAGER:

TYPE OF BUSINESS: NUMBER OF EMPLOYEES: less than 20

Research
Service

MAJOR CLIENT(S): LEVEL OF ESTABLISHMENT: Division
NASA/JSC

LINE(S) OF BUSINESS:	CONTACT PERSON:
Space Biomedical Research Support University Advanced Design Program	J. R. Sevier Carol Hopf

OTHER INFORMATION:

COMPANY NAME: Unisys, Houston Operations Division

LOCATION: 600 Gemini Ave.
Houston

Tx 77058

MAILING ADDRESS:

TELEPHONE: 713/282-2000

	NAME	TELEPHONE
CEO/GENERAL MANAGER:	John B. Munson (Vice President & Gen. Manager)	713/282-4952
PERSONNEL DIRECTOR:	Ron Stephens (Manager, Human Resources)	713/282-2586
MARKETING MANAGER:	Frank Perez (Director, Business Development)	713/480-9281

TYPE OF BUSINESS: NUMBER OF EMPLOYEES: 500 - 999
Service

MAJOR CLIENT(S): LEVEL OF ESTABLISHMENT: Division

NASA/JSC
Department of Defense

LINE(S) OF BUSINESS:	CONTACT PERSON:
Software Engineering	Frank Perez

OTHER INFORMATION:

Plan to extend into other NASA work both at JSC
and other NASA sites.